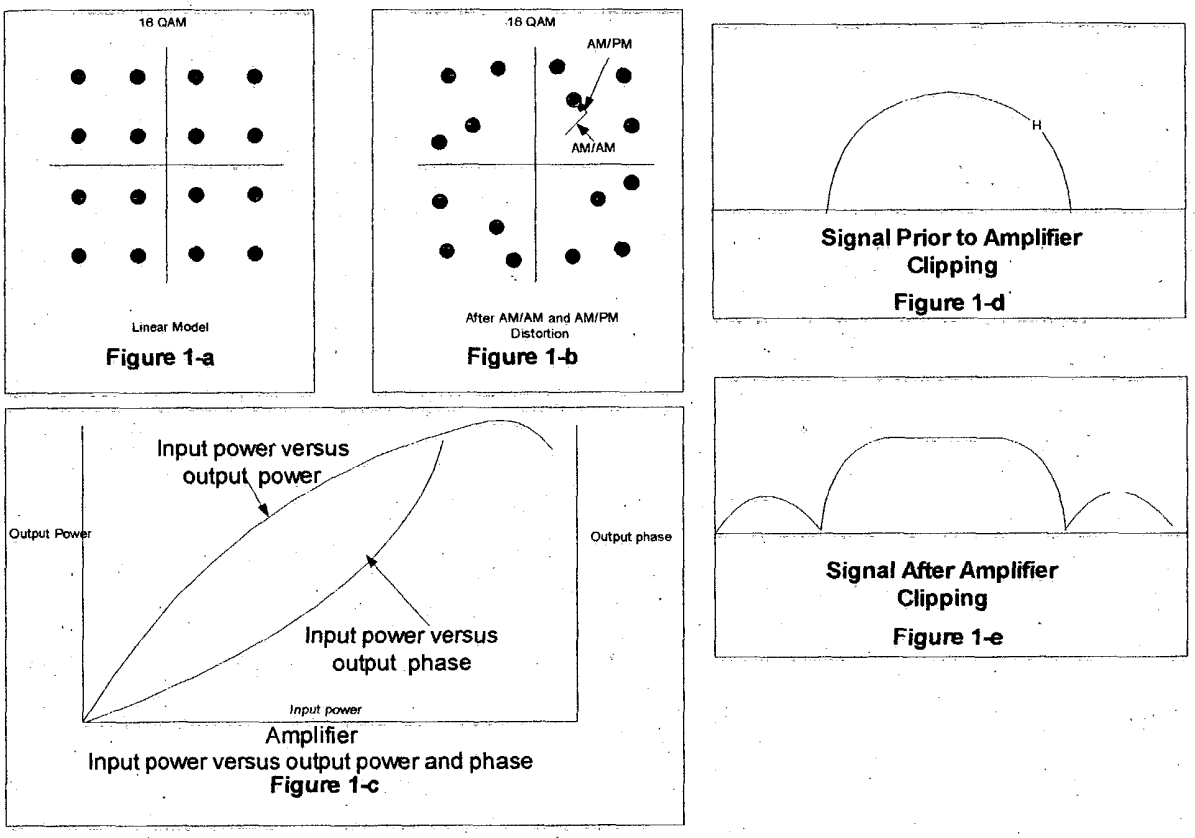

Figure 1: AM/AM and AM/PM Non-linear Distortion of an Amplifier

TOP LEVEL BLOCK DIAGRAM

NL Transmitter
Digital AM Compensation
Digital PM Compensation

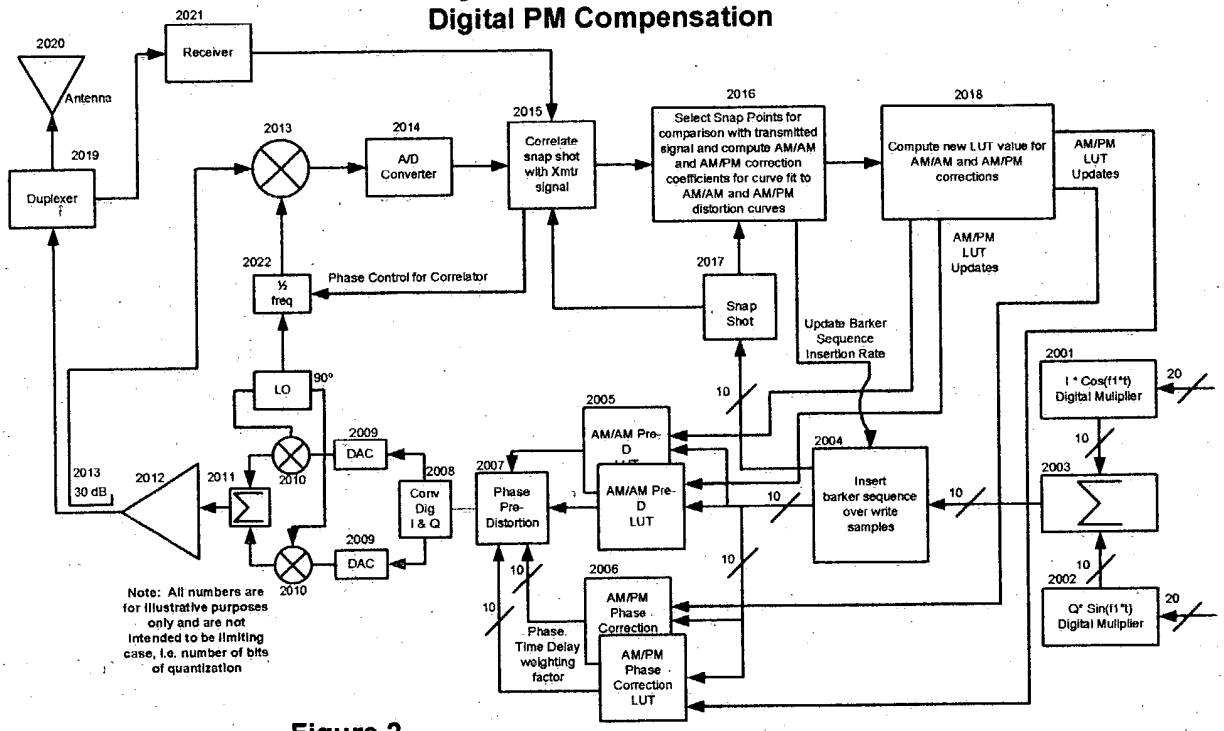

Figure 2

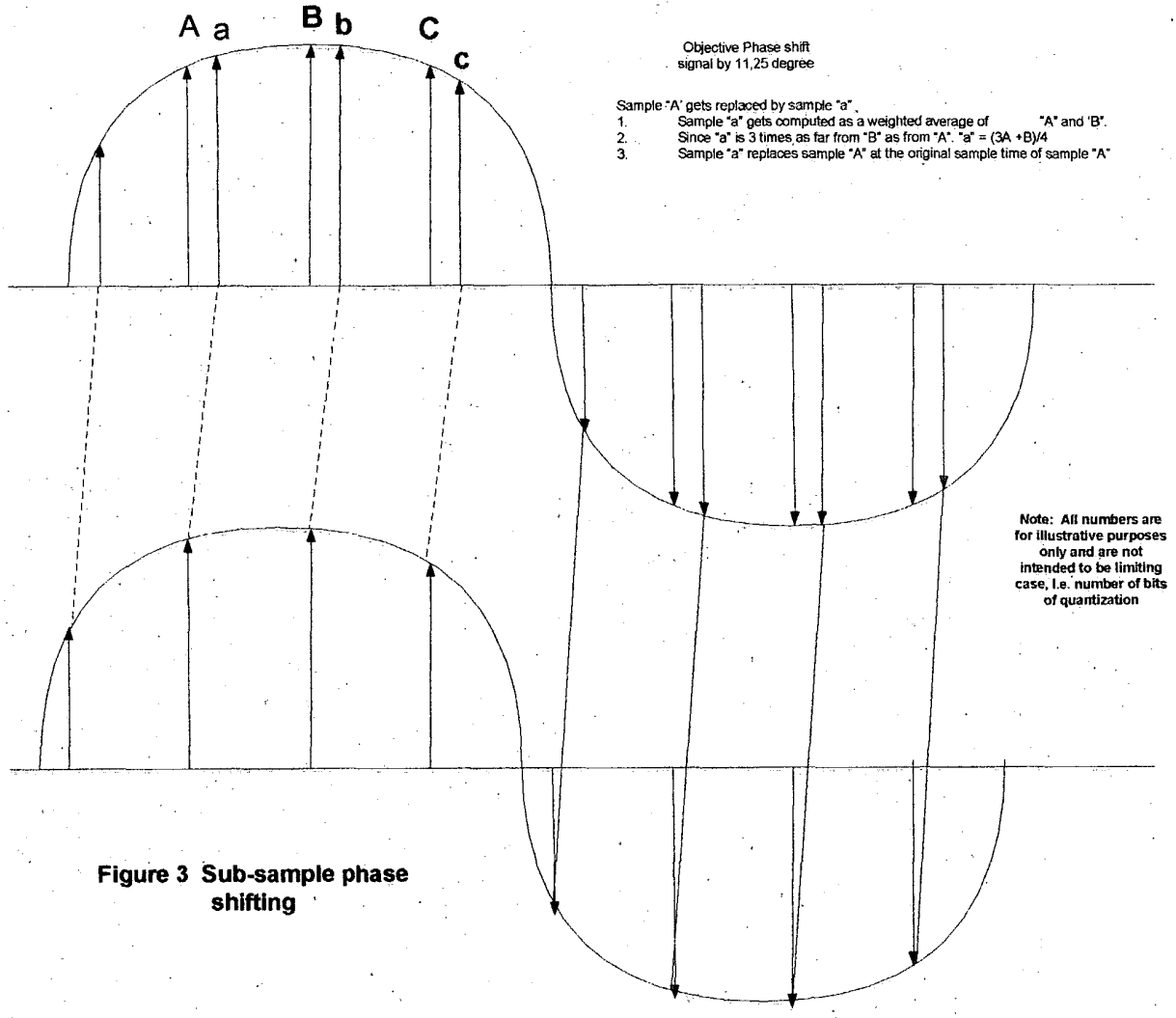

Figure 3 Sub-sample phase shifting

TOP LEVEL BLOCK DIAGRAM

NL Transmitter with Digital AM Compensation & Analog PM Compensation

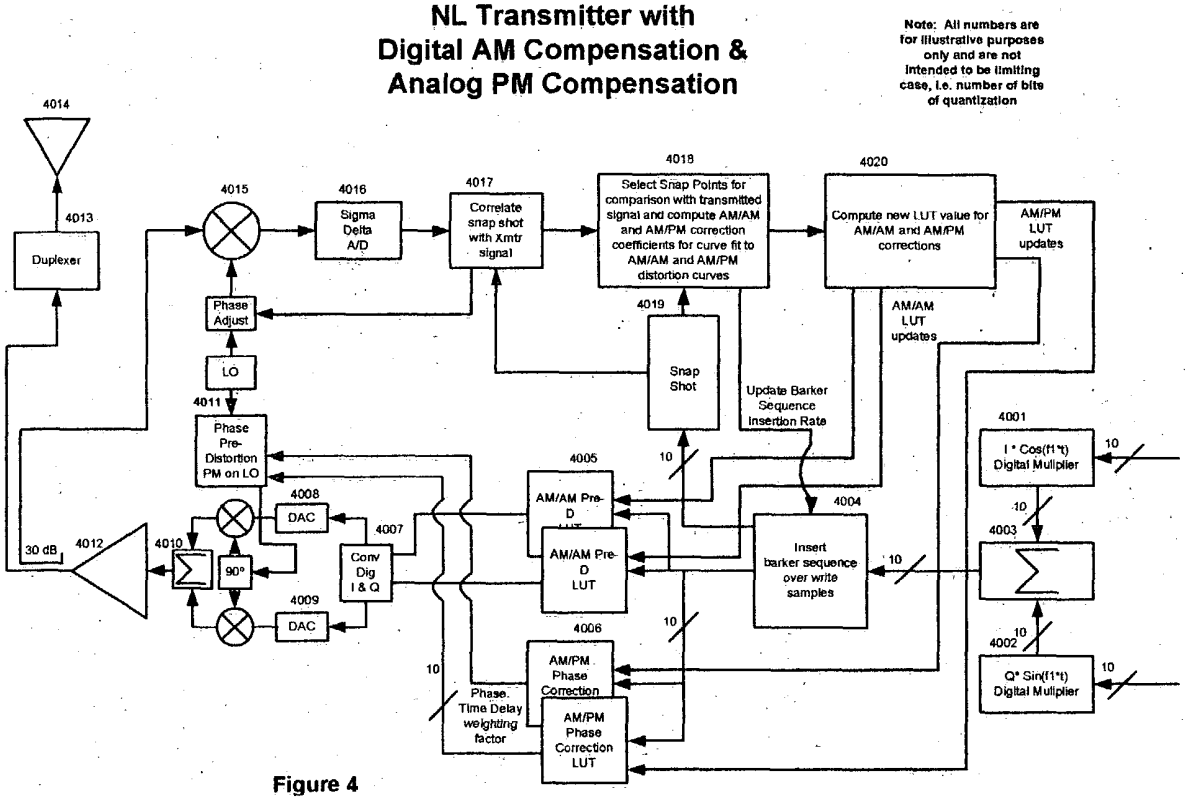

Figure 4

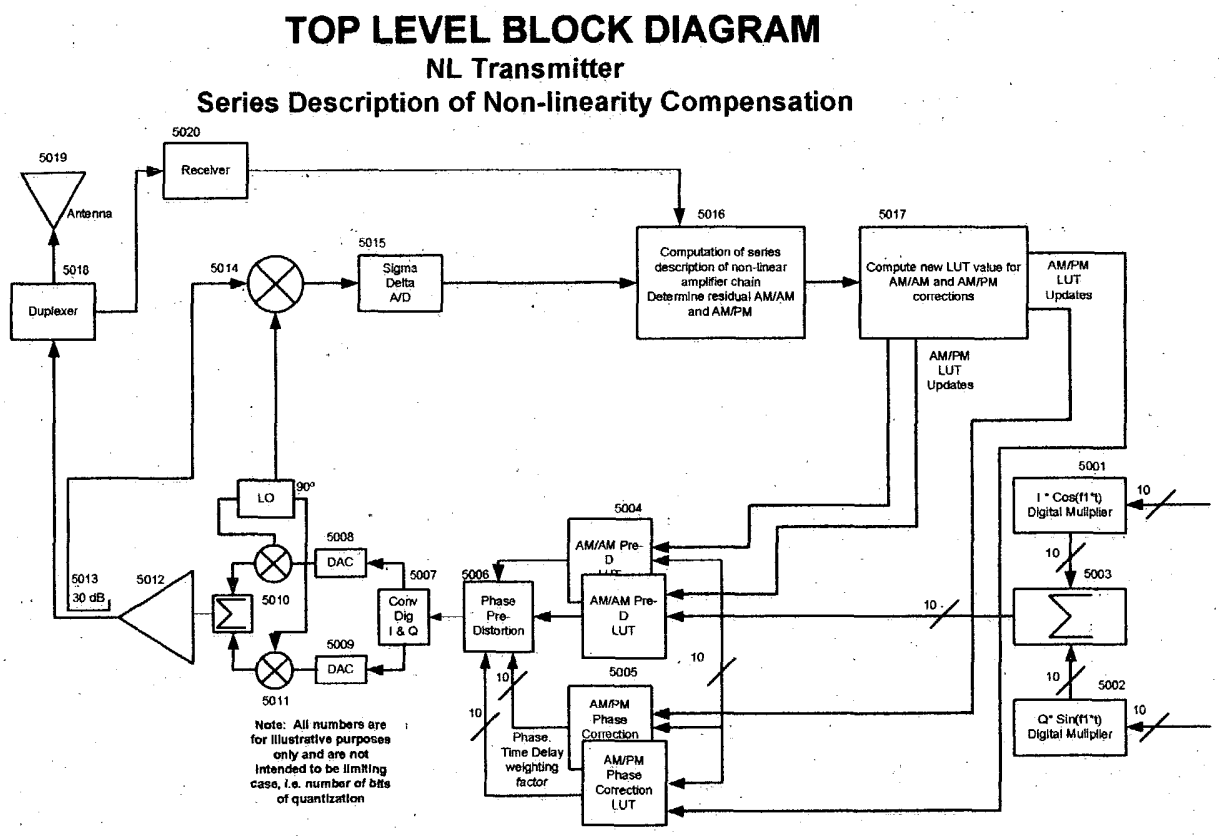

Figure 5 Mathematical Series Description of NL for Pre-distortion